REFERENCES, ACRONYMS AND ABBREVIATIONS, GLOSSARY, AND INDEX

CHAPTER 6

6.0 References, Acronyms and Abbreviations, Glossary, and Index

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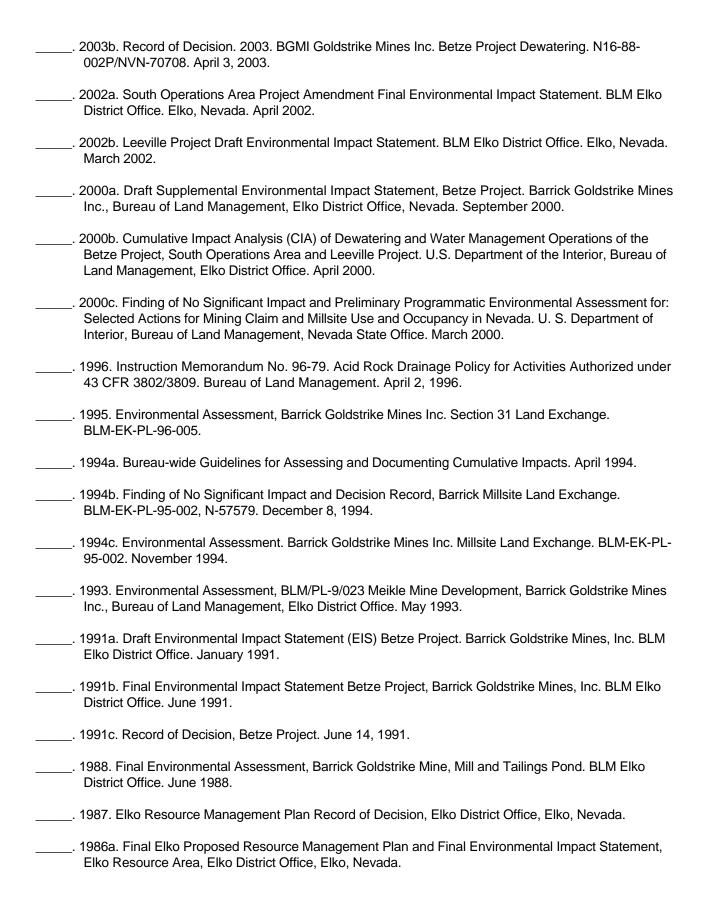
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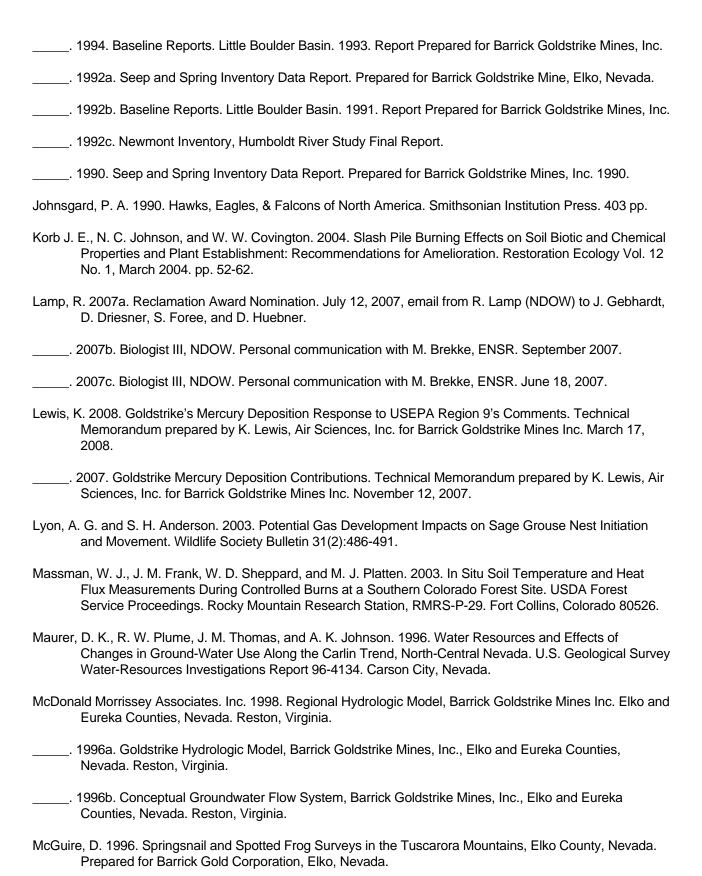
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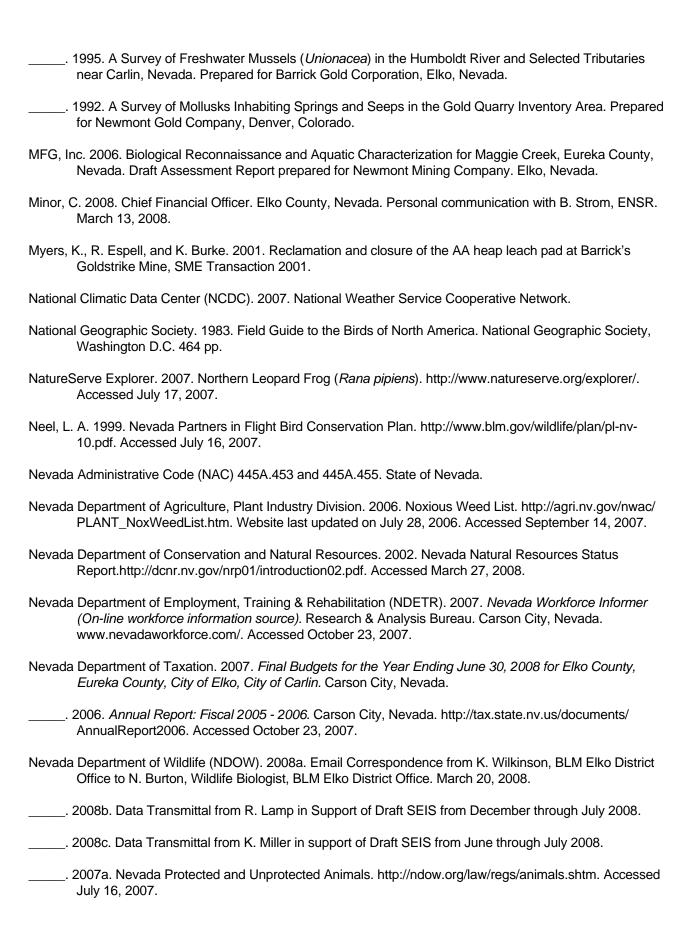
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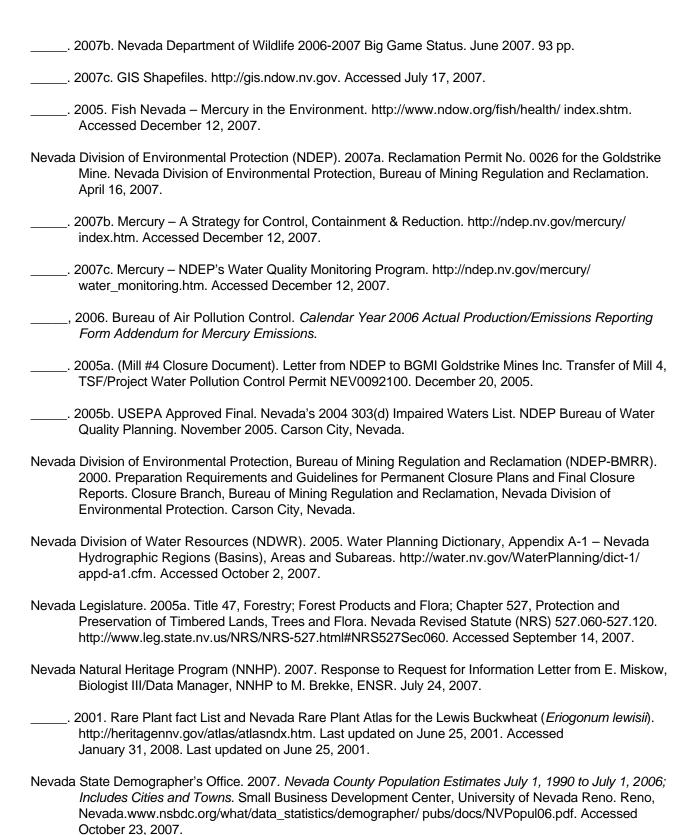
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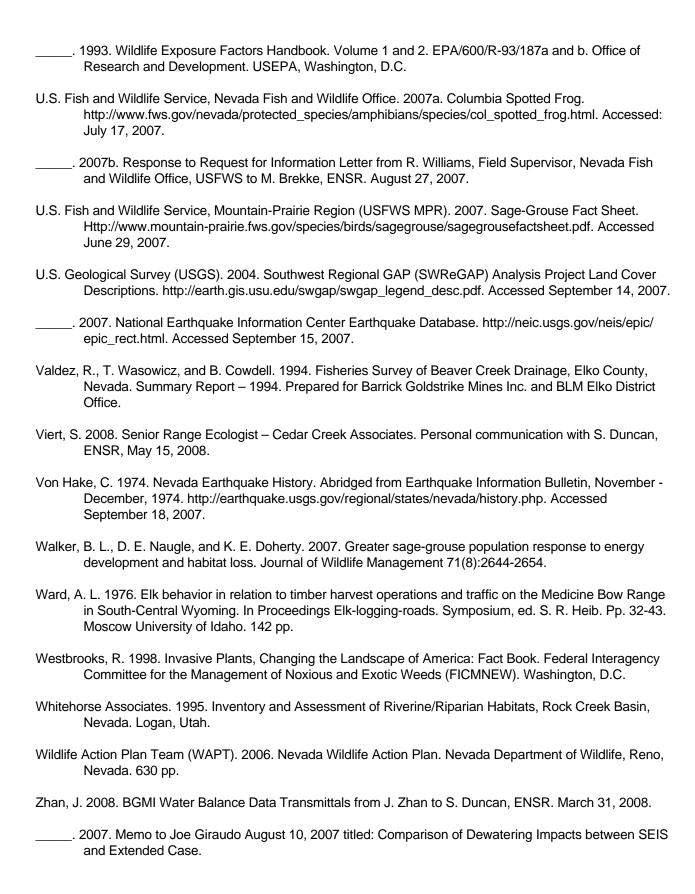
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6.2 Acronyms and Abbreviations

°F degrees Fahrenheit

μg/L microgram per liter

μg/m³ microgram per cubic meter

AAQS Ambient Air Quality Standards

AATA AATA International, Inc.

ABA acid-base accounting

ACHP Advisory Council on Historic Preservation

afy acre-feet per year

AGP acid generation potential

AIRFA American Indian Religious Freedom Act

amsl above mean sea level

ANP acid neutralization potential

APE area of potential effect

ARD acid rock drainage

ARPA Archaeological Resources Protection Act

BAPC Bureau of Air Pollution Control

BGMI Barrick Goldstrike Mines Inc.

BLM Bureau of Land Management

BMP Best Management Practice

BMRR Bureau of Mining Regulation and Reclamation

BVMP Boulder Valley Monitoring Plan

CAA Federal Clean Air Act

CAAA Federal Clean Air Act Amendments

CaCO₃ Calcium carbonate

CAT Computerized Axial Tomography

CDP Census Designated Place

6-17 August 2008

CEQ Council on Environmental Quality

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CESA Cumulative Effects Study Area

CFR CFR

cfs cubic feet per second

CH₃Hg⁺ methyl mercury

CIA Cumulative Impact Analysis of Dewatering and Water Management Operations for the Betze

Project, South Operations Area Project Amendment, and Leeville Project

CIL carbon-in-leach

cm centimeter

cm/sec centimeter per second

CN cyanide

CO carbon monoxide

CO₂ carbon dioxide

COPC constituent of potential concern

CWA Clean Water Act

DRI Desert Research Institute

EA Environmental Assessment

EC electrical conductivity

ECEDA Elko County Economic Diversification Authority

EIS Environmental Impact Statement

ELLCO Elko Land and Livestock Company

EO Executive Order

EMA Environmental Management Associates, Inc.

ERA ecological risk assessment

ESA Endangered Species Act

ET Evapotranspiration

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FLPMA Federal Land Policy and Management Act

FR Federal Register

FSA Fire Science Academy

FY fiscal year

GBC Great Basin College

g/km²-yr grams per square kilometer per year

g/m² grams per square meter

GHG Greenhouse Gas

gpm gallons per minute

HAP Hazardous Air Pollutant

HDPE high density polyethylene

Hg mercury

HQ Hazard Quotient

I-80 Interstate 80

ICMC International Cyanide Management Code

ICU Intensive Care Unit

IM Instructional Memorandum

INCO International Nickel Company

JBR Environmental Consultants, Inc.

Kg/t CaCO₃ kilograms per ton of calcium carbonate

KOP Key Observation Point

kV Kilovolt

km Kilometer

LCT Lahontan cutthroat trout

LLDPE linear low density polyethylene

m meter

mg/L milligrams per liter

6-19 August 2008

MBTA Migratory Bird Treaty Act

MCBMP Maggie Creek Basin Monitoring Plan

mgd million gallons per day

MOU Memorandum of Understanding

MPR Mountain Prairie Region

MRI Magnetic Resonance Imaging

MSHA Mine Safety and Health Administration

MUID Map Unit Identification

NAAQS National Ambient Air Quality Standards

NAC Nevada Administrative Code

NAG non-acid generating

NAGPRA Native American Graves Protection and Repatriation Act

NDEP Nevada Division of Environmental Protection

NDETR Nevada Department of Employment, Training, Rehabilitation

NDOW Nevada Department of Wildlife

NDWR Nevada Division of Water Resources

NEPA National Environmental Policy Act

Newmont Newmont Mining Corporation

NHPA NHPA of 1986

NMCP Nevada Mercury Air Emissions Control Program

NNHP Nevada Natural Heritage Program

NNP net neutralization potential

NNSG Northeastern Nevada Stewardship Group

NO₂ nitrogen dioxide

NO_x nitrogen oxides

NPS National Park Service

NRCS Natural Resources Conservation Service

6-20 August 2008

NRHP National Register of Historic Places

NRS Nevada Revised Statute

NSHD Nevada State Health Division

NSPS New Source Performance Standards

NVMACT Nevada Maximum Achievable Control Technology

NWR National Wildlife Refuge

O₃ Ozone

PA Programmatic Agreement

PAG potentially acid generating

PCPI Per Capita Personal Income

PCS Petroleum Contaminated Soil

PLS Pure Live Seed

PM particulate matter

PM₁₀ particulate matter with an aerodynamic diameter of 10 microns or less

PM_{2.5} particulate matter with an aerodynamic diameter of 2.5 microns or less

PMF probable maximum flood

POO Plan of Operations

ppm parts per million

PSD Prevention of Significant Deterioration

RCP reinforced concrete pipe

RCRA Resource Conservation and Recovery Act

REMSAD Regional Modeling System for Aerosols and Depostion

RFFA Reasonably Foreseeable Future Action

RIB Rapid Infiltration Basin

RMP Resource Management Plan

ROD Record of Decision

ROM Run of Mine

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ROW right-of-way

RSD Recommended Salvage Depth

RTi Riverside Technology inc.

RV Recreational Vehicle

SARA Superfund Amendments and Reauthorization Act

SEIS Supplemental Environmental Impact Statement

SH State Highway

SHPO State Historic Preservation Office

SIP State Implementation Plan

SO₂ sulfur dioxide

SOAP South Operations Area Project

SOAPA South Operations Area Project Amendment

SPCC Plan Spill Prevention, Control, and Countermeasures Plan

SR State Route

SRK SRK Consulting

SSURGO Soil Survey Geographic Database

SU standard units

SWCA SWCA Environmental Consultants Inc.

SWPPP Storm Water Pollution Prevention Plan

SWReGAP Southwest Regional GAP

TCP traditional cultural property

TDS total dissolved solids

t/Kt tons per kiloton

tpy tons per year

TRI toxic release inventory

TRV toxicity reference values

USACE United States Army Corps of Engineers

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USC United States Code

USDA United States Department of Agriculture

USDOT United States Department of Transportation

USEPA United States Environmental Protection Agency

USFS United States Forest Service

USFWS United States Fish and Wildlife Service

USGS U.S. Geological Survey

UWCHEP Upper Willow Creek Habitat Enhancement Plan

VOC Volatile Organic Compound

VRM Visual Resource Management

WAD weak acid dissociable

WAPT Wildlife Action Plan Team

WEPP Water Erosion Prediction Project

WNV West Nile Virus

WMA Wildlife Management Area

6-23 August 2008

6.3 Glossary

Adverse Effect An adverse effect is found when an undertaking may alter, directly or (under the NHPA) indirectly, any of the characteristics of a historic property that qualify the

indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the NRHP in a manner that would diminish the

integrity of the property's location, design, setting, materials,

workmanship, feeling, or association.

Alluvial Pertaining to material or processes associated with transportation or

deposition of soil and rock by flowing water (e.g., streams and rivers).

Alluvium Unconsolidated or poorly consolidated gravel, sands, and clays

deposited by streams and rivers on riverbeds, floodplains, and alluvial

fans.

Ambient The environment as it exists at the point of measurement and against

which changes or impacts are measured.

Americans their inherent right of freedom to believe, express, and exercise their traditional religions, including the rights of access to religious sites, use and possession of sacred objects, and freedom to

worship through traditional ceremonies and rites.

Archaeological Resources A federal law, passed in 1979 to protect archaeological resources on

public and Indian lands.

Area of Potential Effects Defined in Section 106 regulations as the geographic area or areas

within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties

exist.

Aquifer A body of rock that is sufficiently permeable to conduct groundwater

and to yield economically significant quantities of water to wells and

springs.

Background Noise Noise from all sources other than that from a particular source of

interest (e.g., other than mining noise if mining noise were being

investigated).

Bedrock Any solid rock exposed at the surface or overlain by unconsolidated

material.

BLM Sensitive Species Previous Category 2 (C2) candidate species.

CFR The compilation of federal regulations adopted by federal agencies

through a rule-making process.

Carrying Capacity

The maximum population of an animal that an ecosystem can support

without being degraded.

6-24 August 2008

Cone of Depression The depression of groundwater levels around a pumping well caused

by the withdrawal of water.

Critical Habitat Habitat that is present in minimum amounts and is the determining

factor in the potential for population maintenance and growth.

Cultural Resources Archaeological sites, architectural structures or features, traditional use

areas, and Native American sacred sites or special use areas.

Cumulative Effects The combined environmental impacts that accrue over time and space

from a series of similar or related individual actions, contaminants, or projects. Although each action may seem to have a negligible impact, the combined effect can be significant. Included are activities of the past, present, and reasonably foreseeable future; synonymous with

cumulative impacts.

place (40 CFR 1508.7); synonymous with direct effects.

Discharge The volume of water flowing past a point per unit time, commonly

expressed as cubic feet per second, gallons per minute, or million

gallons per day.

Disturbed Area An area where natural vegetation and soils have been removed.

Dolomite A mineral, calcium magnesium carbonate (CaMg[CO₃]₂), or a rock

composed largely of dolomite.

Drainage The natural channel through which water flows some time of the year;

natural and artificial means for affecting discharge of water as by a

system of surface and subsurface passages.

Drawdown The lowering of the water level in a well as a result of withdrawal; the

reduction in groundwater level at a point caused by the withdrawal of

water from an aquifer.

Effect An effect on one of the characteristics that may make a historic

property eligible for inclusion in the NRHP.

Endangered Species Any species in danger of extinction throughout all or a significant

portion of its range. Plant or animal species identified by the Secretary

of the Interior as endangered in accordance with the 1973 ESA.

Ephemeral Stream A stream or portion of a stream that flows briefly in direct response to

precipitation in the immediate vicinity and whose channel is at all times

above the water table.

Erosion The wearing away of soil and rock by weathering, mass wasting, and

the action of streams, glaciers, waves, wind, and groundwater.

Executive Order 11593 Requires federal agencies to survey properties under their jurisdiction

and nominate appropriate candidates to the NRHP.

6-25 August 2008

Executive Order 13287 of

2003

Initiative affirming the federal government's leadership role in protecting historic properties. Among the goals of Preserve America are to promote partnerships for the use and rehabilitation of historic properties, and to assist in developing heritage tourism opportunities.

Exploration The search for economic deposits of minerals, ore, and other materials

through practices of geology, geochemistry, geophysics, drilling, and/or

mapping.

Fault A fracture in rock units along which there has been displacement.

Floodplain That portion of a river valley, adjacent to the channel, that is built of

sediments deposited during the present regimen of the stream and that is covered with water when the river overflows its banks at flood stages.

Fugitive Dust Dust particles suspended randomly in the air from various sources

including road travel, excavation, and rock loading operations.

Geochemistry

The study of the distribution and amounts of the chemical elements in

minerals, ores, rocks, soils, water, and the atmosphere, and their circulation in nature on the basis of the properties of their atoms and

ions.

Geotechnical A branch of engineering concerned with the engineering design

aspects of slope stability, settlement, earth pressures, bearing capacity,

seepage control, and erosion.

Groundwater Recovery

An increase in groundwater levels such that the groundwater elevations

rise above initial baseline groundwater elevations. Used to refer to an

increase in water levels following drawdown.

Groundwater Table The surface between the zone of saturation and the zone of aeration;

that surface of a body of unconfined groundwater at which the pressure

is equal to that of the atmosphere.

Habitat A specific set of physical conditions that surround a single species, a

group of species, or a large community. In wildlife management, the major components of habitat are considered to be food, water, cover,

and living space.

Hazard Quotient A comparison of an estimated chemical intake (dose) with a reference

dose level below which adverse health effects are unlikely. The hazard quotient is expressed as the ratio of the estimated intake to the reference dose. The value is used to evaluate the potential for

noncancer health effects, such as organ damage, $\dot{\rm f}{\rm rom}$ chemical

exposures.

Heap Leaching The process of recovering gold and other metals from low-grade ores

by leaching ore that has been mined and placed on a specially prepared pad. A chemical solution is applied through low volume emitters, and the metal-bearing leachate solution percolates and is

collected.

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Historic Property Defined by the NHPA as any property included in or eligible for the

NRHP.

Hydraulic Conductivity The capacity of a rock to transmit water. It is expressed as the volume

of water at the existing kinematic viscosity that will move in unit time under a unit hydraulic gradient through a unit area measured at right

angles to the direction of flow.

Hydrostratigraphic Unit Grouping of stratified, mainly sedimentary rocks that have similar

hydrologic properties.

Impact A modification in the status of the environment brought about by the

Proposed Action or an alternative.

Impacts that are caused by the action and are later in time or farther

removed in distance, but are still reasonably foreseeable (40 CFR 1508.8); synonymous with indirect effects.

Infiltration The movement of water or some other liquid into the soil or rock

through pores or other openings.

Irretrievable Applies primarily to the lost production of renewable natural resources

during the life of the project.

Irreversible Applies primarily to the use of nonrenewable resources, such as

minerals, cultural resources, wetlands, or to those factors that are renewable only over long time spans, such as soil productivity.

Irreversible also includes loss of future options.

Jurisdictional Wetland A wetland area identified and delineated by specific technical criteria,

field indicators, and other information for purposes of public agency jurisdiction. The public agencies that administer jurisdictional wetlands

are the USACE, the USEPA, the USFWS, and the NRCS.

Key Observation Point "One or a series of points on a travel route or at a use area or a

potential use area, where the view of a management activity would be most revealing" (BLM 1986c). KOPs are commonly selected to represent the most sensitive viewpoints for a proposed management activity based on the number of people who would experience them or

the frequency and duration of viewing.

Leachate A solution obtained by leaching as in downward percolation of water

through soil or waste.

Mineralization The process by which a valuable mineral or minerals are introduced

into a rock.

Mitigate, Mitigation To cause to become less severe or harmful; actions to avoid, minimize,

rectify, reduce or eliminate, and compensate for impacts to

environmental resources.

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Monitor To systematically and repeatedly watch, observe, or measure

environmental conditions in order to track changes.

National Environmental

Policy Act

The National Environmental Policy Act (NEPA) of 1969; the national Policy charter for protecting the environment. NEPA establishes policy, sets goals, and provides means for carrying out the policy. Regulations

from 40 CFR 1500-1508 implement the act.

National Historic Preservation
Act directing federal agencies to consider the effects of their programs

and projects on properties listed on or eligible for the NRHP. If a proposed action might impact any archaeological, historical, or architectural resource, this act mandates consultation with the proper

agencies.

National Pollutant Discharge

Elimination System

A part of the Clean Water Act that requires point source dischargers to obtain permits. These permits are referred to as NPDES permits and

are administered by the USEPA.

National Register of Historic

Places

A register maintained by the NPS that lists districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, engineering and culture that meet criteria set forth in

36 CFR 60.

Native American Grave Protection and Repatriation

Act of 1990

A federal law, passed in 1990 that provides for the return of certain sacred and ceremonial objects held by museums and other repositories to the Native American peoples from which they were originally

acquired.

Native Species Plants that originated in the area in which they are found (i.e., they

naturally occur in that area).

Nevada legislature.

Nevada Revised Statutes The text of laws passed by the Nevada legislature.

Ore A deposit of rock from which a valuable mineral or minerals can be

economically extracted.

Overburden Material that must be removed to allow access to an orebody,

particularly in a surface mining operation.

Paleozoic The span of time between approximately 570 and 245 million years

ago.

Particulate(s) Minute, separate particles, such as dust or other air pollutants.

Perennial Stream A stream or reach of a stream that flows throughout the year.

Physiographic Province Region in which all parts have similar geologic structure and climate

and whose landforms differ significantly from those of other regions.

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Project Alternatives Alternatives to the Proposed Action developed through the NEPA

process.

Properties of Cultural and

Religious Importance

A "property of cultural or religious importance" that is a historic property eligible for the NRHP and associated with the cultural practices of an

Indian tribe or other cultural or ethnic community.

Raptor A bird of prey (e.g., eagle, hawk, falcon, and owl).

Recovery (Groundwater) An increase in groundwater levels such that the groundwater elevations

rise above initial baseline groundwater elevations. Refers to an

increase in water levels following drawdown.

Reserves Identified resources of mineral-bearing rock from which the mineral can

be extracted profitably with existing technology and under present

economic conditions.

ROW Strip of land or corridor over which a power line, access road, or

maintenance road would pass.

Riparian Situated on or pertaining to the bank of a river, stream, or other body of

water. Riparian is normally used to refer to plants of all types that grow

along streams, rivers, or at spring and seep sites.

Runoff That part of precipitation that appears in surface streams; precipitation

that is not retained on the site where it falls and is not absorbed by the

soil.

Sediment Material suspended in or settling to the bottom of a liquid. Sediment

input comes from natural sources, such as soil erosion and rock weathering, construction activities, or anthropogenic sources, such as

forest or agricultural practices.

Sediment Load The amount of sediment (sand, silt, and fine particles) carried by a

stream or river.

Seismicity The likelihood of an area being subject to earthquakes; the

phenomenon of earth movements.

Sensitive Viewpoint Similar to a KOP, but of lesser sensitivity due to infrequency of use,

small numbers of viewers, or similar mitigating circumstances.

Species A group of individuals of common ancestry that closely resemble each

other structurally and physiologically, and in nature interbreed

producing fertile offspring.

Stratigraphy Form, arrangement, geographic distribution, chronological succession,

classification, and relationships of rock strata.

Subsidence Sinking or downward settling of the earth's surface.

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Tertiary The span of time between 65 and 10 million years ago.

Threatened Species Any species of plant or animal that is likely to become endangered

within the foreseeable future throughout all or a significant portion of its

range.

Total Dissolved Solids The total amount of dissolved material, organic or inorganic, contained

in a sample of water.

Total Suspended Solids The amount of undissolved particles suspended in a sample of water.

Traditional Cultural Property A site or resource that is eligible for inclusion in the NRHP because of

its association with cultural practices or beliefs of a living community.

Transmissivity The rate at which water of the prevailing kinematic viscosity is

transmitted through a unit width of an aquifer under a unit hydraulic gradient; it equals the hydraulic conductivity multiplied by the aquifer

thickness.

Visual Resource The composite of basic terrain, geologic features, water features,

vegetation patterns, and land use effects that typify a land unit and

influence the visual appeal the unit may have for viewers.

A classification of landscapes according to the kinds of structures and changes that are acceptable to meet established visual goals (BLM).

Water Table The level in the saturated zone at which the pressure is equal to the

atmospheric pressure.

Waters of the United States A jurisdictional term from Section 404 of the Clean Water Act referring

to water bodies such as lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds. The use, degradation, or destruction of these waters could affect interstate or foreign commerce.

Wetlands Areas that are inundated by surface or groundwater with a frequency

sufficient to support (and under normal circumstances do or would support) a prevalence of vegetation or aquatic life that requires saturated or seasonally saturated soil conditions for growth and

reproduction.

Wind Rose A graphical representation of wind direction and wind speed

frequencies.

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